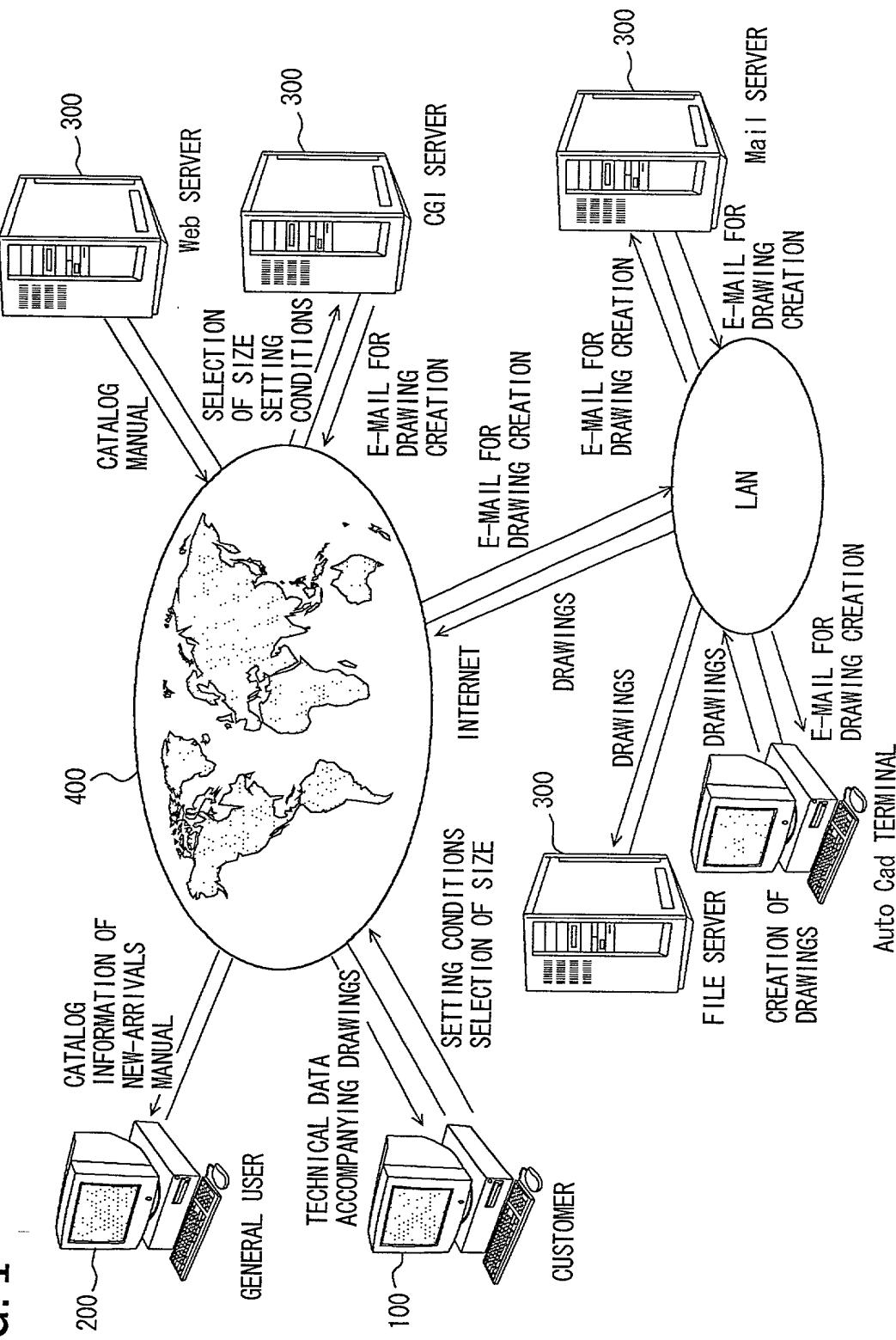
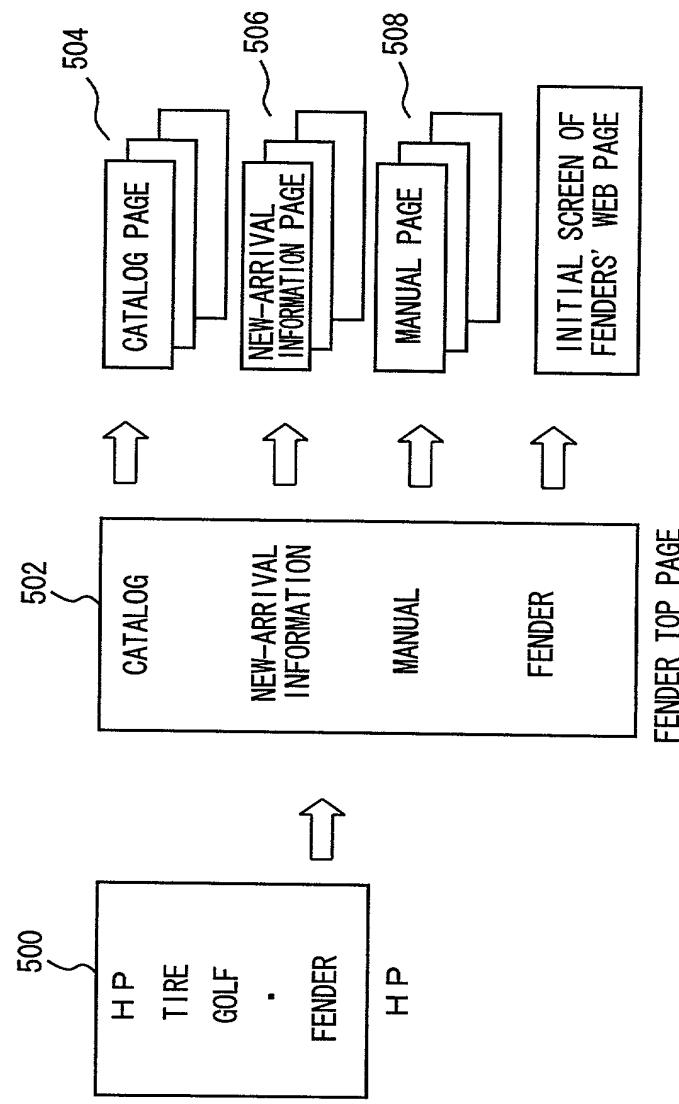


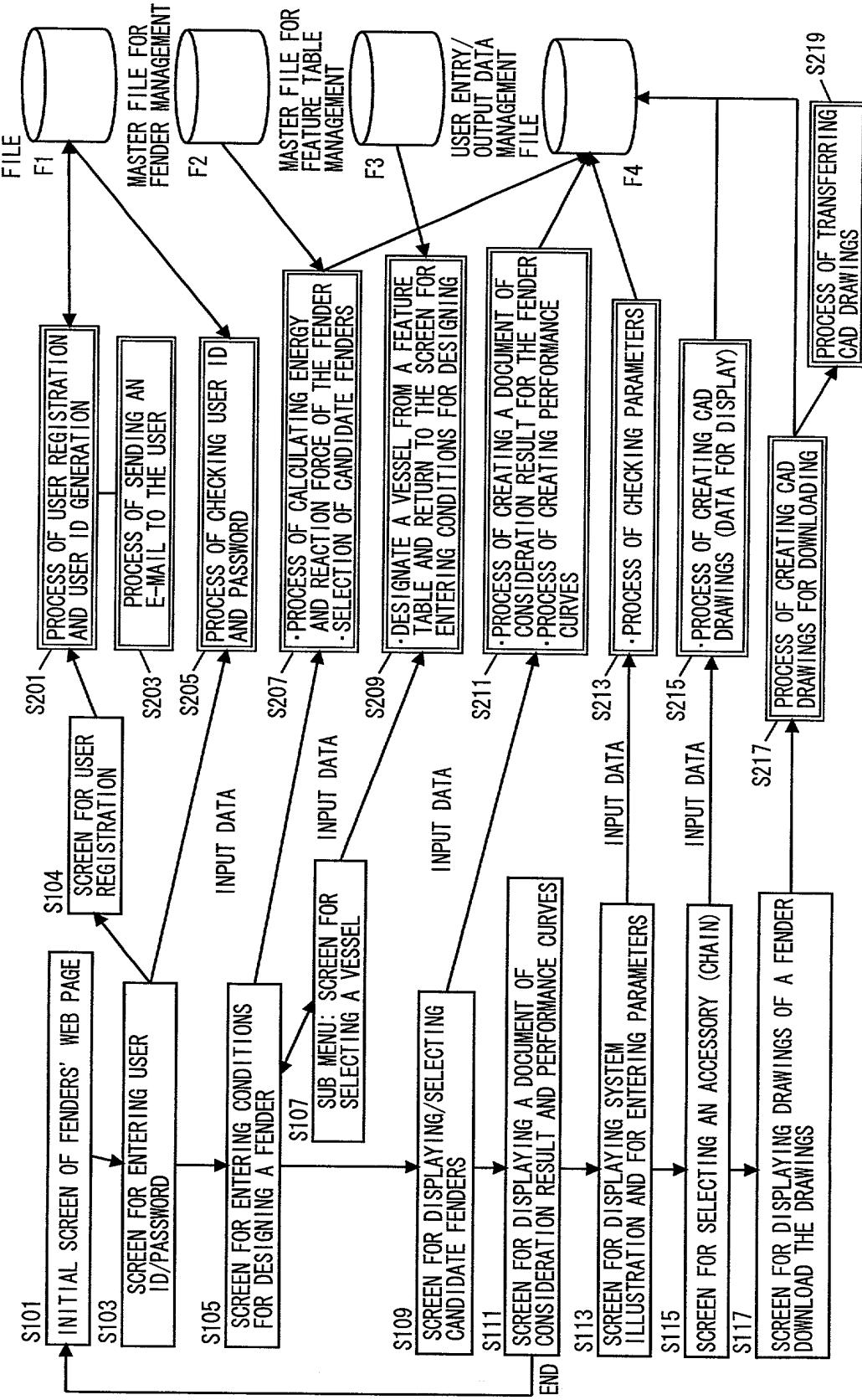
**FIG. 1**



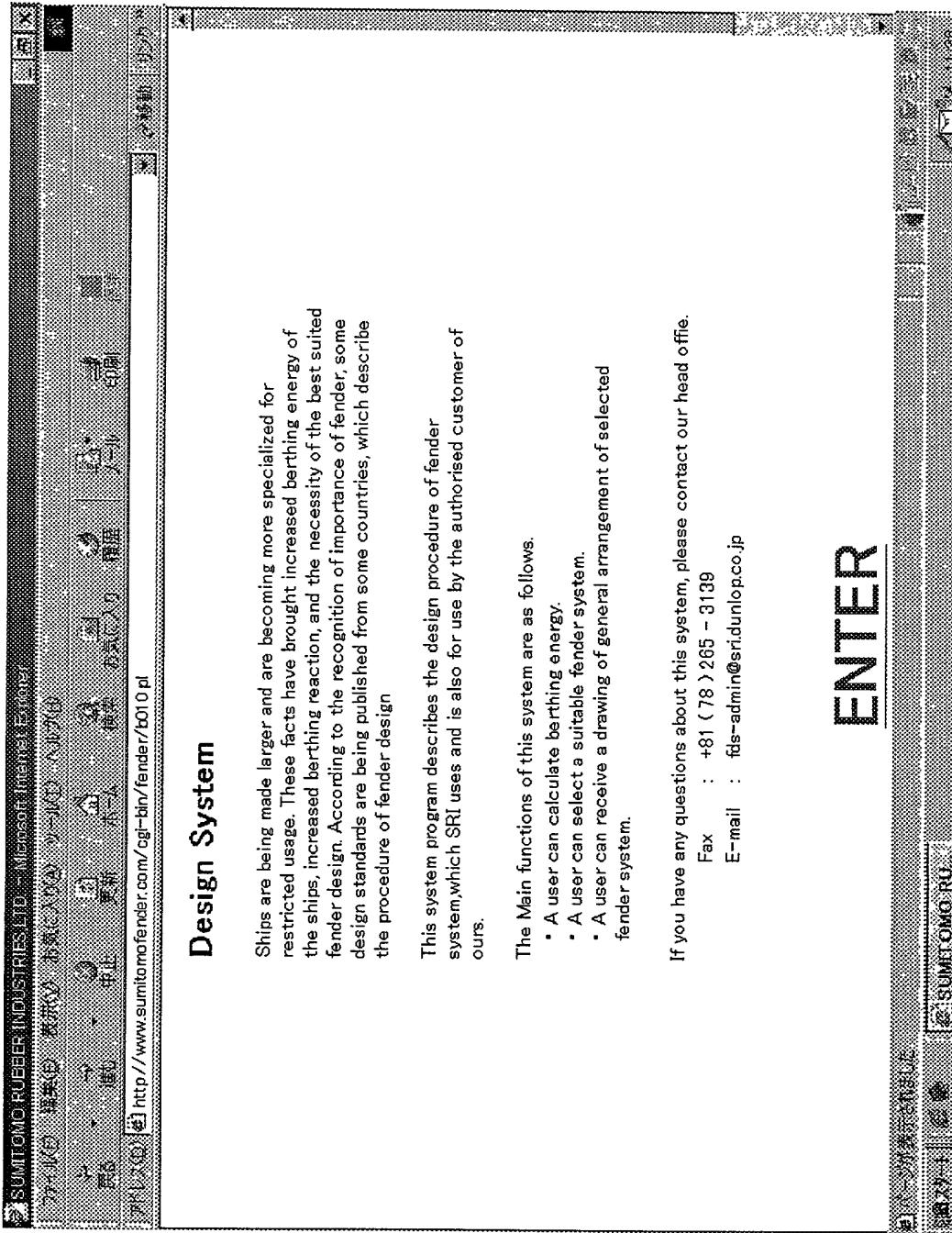
**FIG. 2**



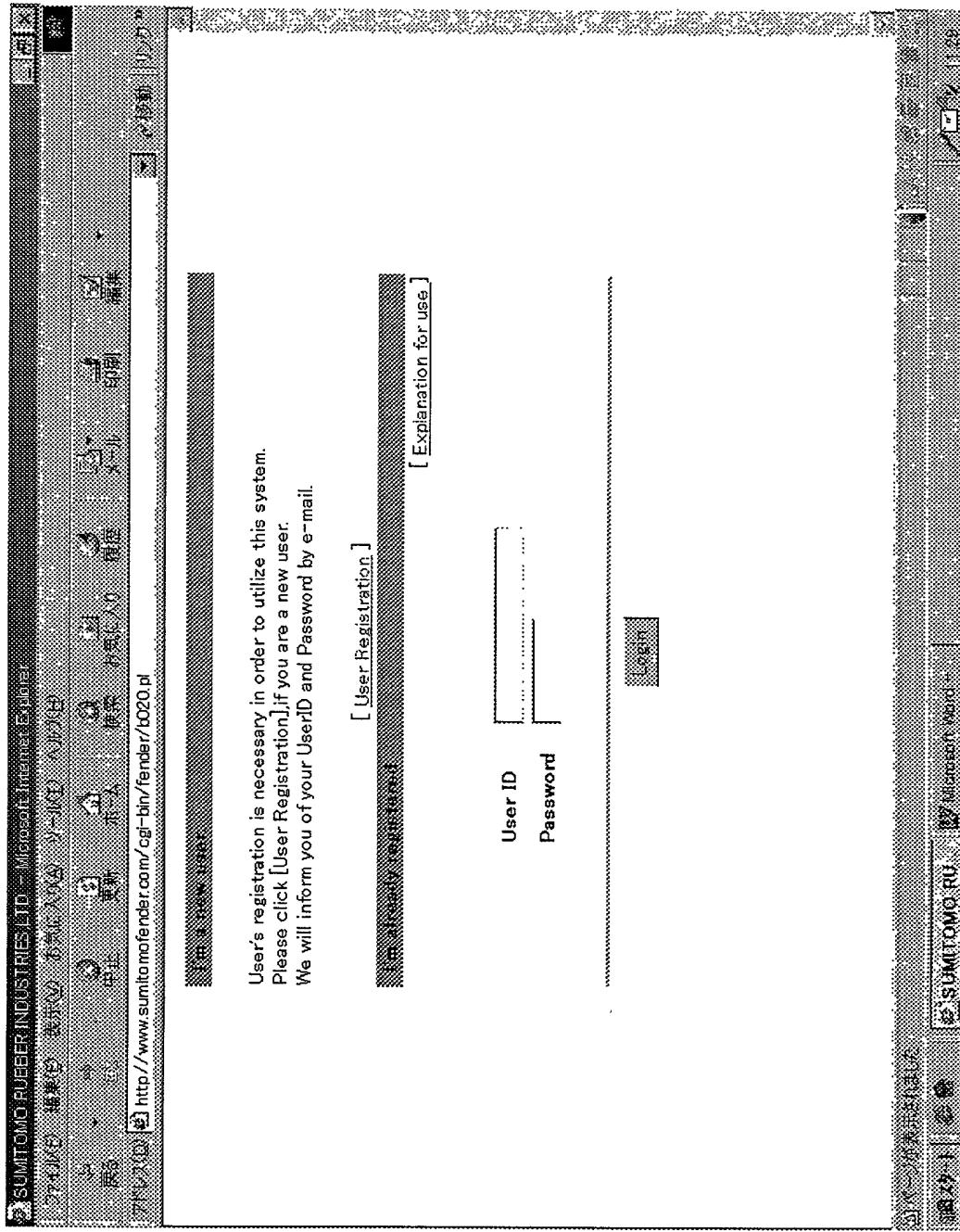
**FIG. 3**



## FIG. 4 INITIAL SCREEN DESCRIPTION OF THE SYSTEM



**FIG. 5** SCREEN FOR ENTERING USER ID AND PASSWORD



## FIG. 6 SCREEN FOR USER REGISTRATION

SUMITOMO RUBBER INDUSTRIES LTD - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://www.sumitomerubber.com/designsystem/img/dc21.html

Please enter your registration information in the field provided so that we can keep you updated about the program.  
After registration we will send you your 'user-id' by e-mail.

Name \_\_\_\_\_

Company \_\_\_\_\_

Category \_\_\_\_\_  
Port authority

Category (others) \_\_\_\_\_

Title \_\_\_\_\_

Country \_\_\_\_\_

Tel \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Password \_\_\_\_\_

Password (Retype) \_\_\_\_\_

Back Forward Stop Home

Sumitomo Rubber Industries Ltd

**FIG. 7**

(THE TOP HALF OF) SCREEN FOR ENTERING CONDITIONS FOR  
DESIGNING FENDER

Sumitomo Rubber Industries

FENDER

Project

Please input the following information for administering this system.

Kind of berth

New Berth

Existing Berth

Project Name

VANTERM PROJECT

Port

VANTERM

Country

CANADA

Constructor

VANCOUVER PILE DRIVING

Consultant

WESTMAR

Design Stage

Plan

Feasibility Study

Detail Design

NEXT->

Logout

http://www.sumitomofender.com/cgi-bin/fender/f030.pl

**FIG. 8**

(THE BOTTOM HALF OF) SCREEN FOR ENTERING CONDITIONS  
FOR DESIGNING FENDER

Sumitomo Rubber Industries Ltd. <http://www.sumitomofender.com/csr-bin/fender/d050.pl>

**Design criteria**

*Technical standards for port and harbour facilities in Japan*

Dimensions of vessels are one of the most important factors in fender design.  
In the case when the dimensions can be obtained, the calculation should be done by the data.  
If they can't, such dimensions should be assumed by the kind and the size of the vessel.  
There are some proposals about the relations of data.  
Please obtain the figure according to one of them and input it.

Type of vessel

Weight : unit (t)  The data with(\*) are the necessary data to calculate the berthing energy.

Gross Tonnage ( GRT )  Deadweight Tonnage ( DWT )  reference

Displacement Tonnage \* (DT)

Dimensions : unit ( m )  
Length overall ( Loa )  The data with(\*) are the necessary data to calculate the berthing energy.

Breadth \* ( B )  Depth ( D )  Length between perpendicular \* ( Lpp )

Hull pressure : unit ( kN/m<sup>2</sup> )  Add   
If yes, click on "Add" again

Delete	Type of vessel	GRT	DWT	DT	Loa	Lpp	B	D	d	Hull pressure
<input checked="" type="checkbox"/>	General cargo ship (smaller than 10000DWT)	4000	5000	5500	100	105	20	12	7	196

**FIG. 9**

SCREEN FOR SELECTING VESSEL (SUB MENU)

HTTP 404: 资源未找到 - Microsoft Internet Explorer

http://www.sumitomo-fender.com/cgi-bin/fender/r.cgi?auto&anchor=EAU Anchor

Ship dimensions  
According to EAU 1990 "5 Ship Dimensions and Loading of Waterfront Structures".  
The following average ship dimensions may be used in preliminary designs and in the design and layout of fenders and dolphins.

Passenger vessels					
Tonnage	Carrying Capacity	Displacement G	Overall Length	Length Between Perps	Beam
GRT	DWT	kN	m	m	m
80 000	---	750 000	315	295	35.5
70 000	---	650 000	315	295	34.0
60 000	---	550 000	310	290	32.5
50 000	---	450 000	300	280	31.0
40 000	---	350 000	265	245	29.5
30 000	---	300 000	230	210	28.0

Bulk Cargo Freighters (One Oil, Coal, Chain etc.)					
Tonnage	Carrying Capacity	Displacement G	Overall Length	Length Between Perps	Beam
GRT	DWT	kN	m	m	m
---	450 000	5 240 000	424	404	68.5
---	420 000	4 900 000	418	398	67.0
---	380 000	4 450 000	407	386	64.5
---	365 000	4 280 000	343	328	63.5
---	340 000	4 000 000	398	378	62.5
---	300 000	3 560 000	385	364	69.5
---	275 000	3 260 000	376	355	67.5
---	250 000	3 000 000	367	346	55.5

**FIG. 10** SCREEN FOR DISPLAYING/SELECTING CANDIDATE FENDERS

SUMITOMO RUBBER INDUSTRIES LTD. Monosuit (Model E-602)

http://www.sumitomo-fender.com/cgi-bin/fender/0070.pl

Length	Installation	Rubber compound	Width
1000	V	CPS	1400
1000	H	CPS	1400
1000	V	CPA	1400
1000	H	CPA	1400
1000	V	CP0	1400
1000	H	CP0	1400
1000	V	CP1	1400
1000	H	CP1	1400
1000	V	CP2	1400
1000	H	CP2	1400
1000	V	CP3	1400
1000	H	CP3	1400
1000	V	CP4	1400
1000	H	CP4	1400

Result of calculation

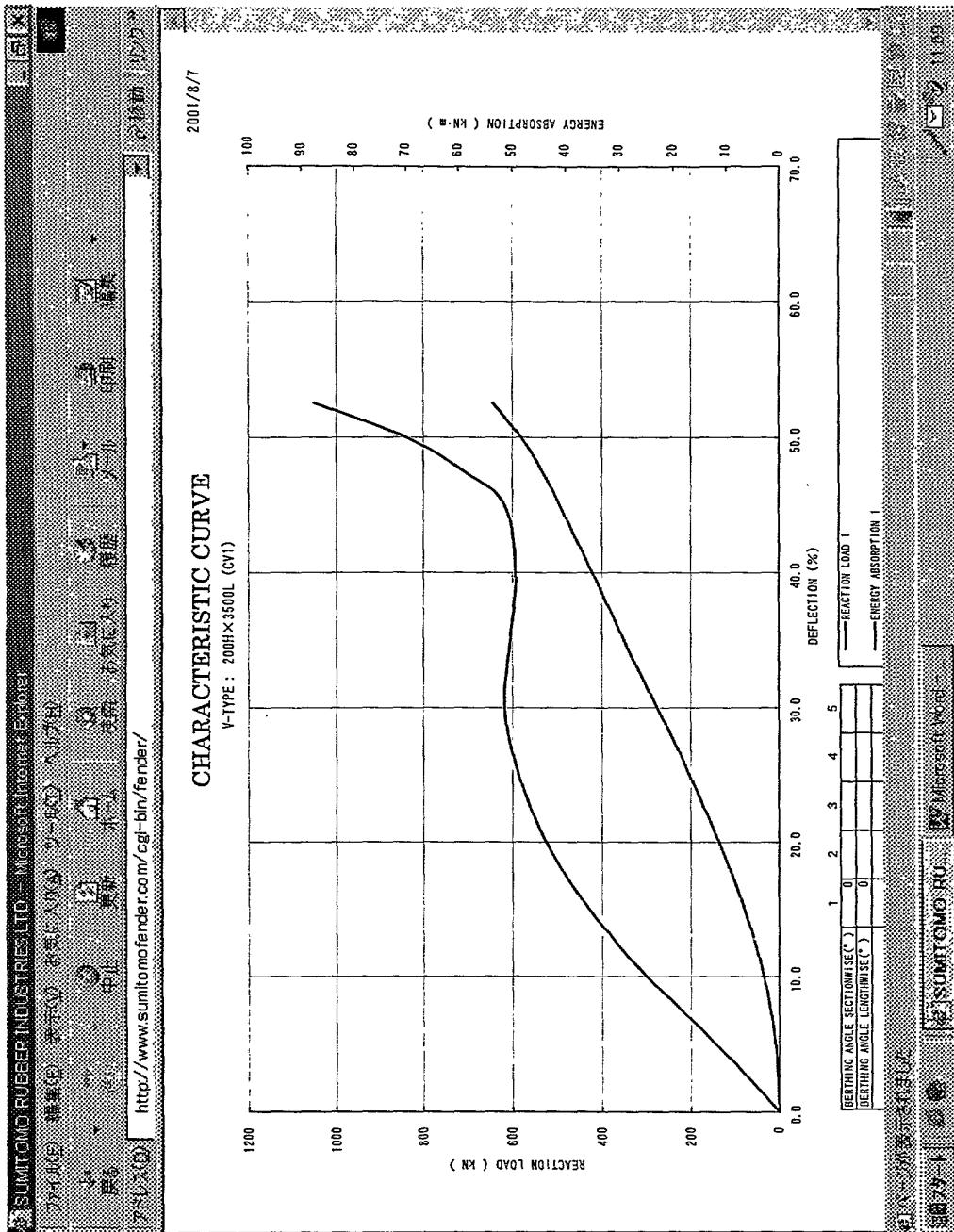
Type of Fender : UPI  
Height : 600

Selection list

V : Vertical installation , H : Horizontal installation

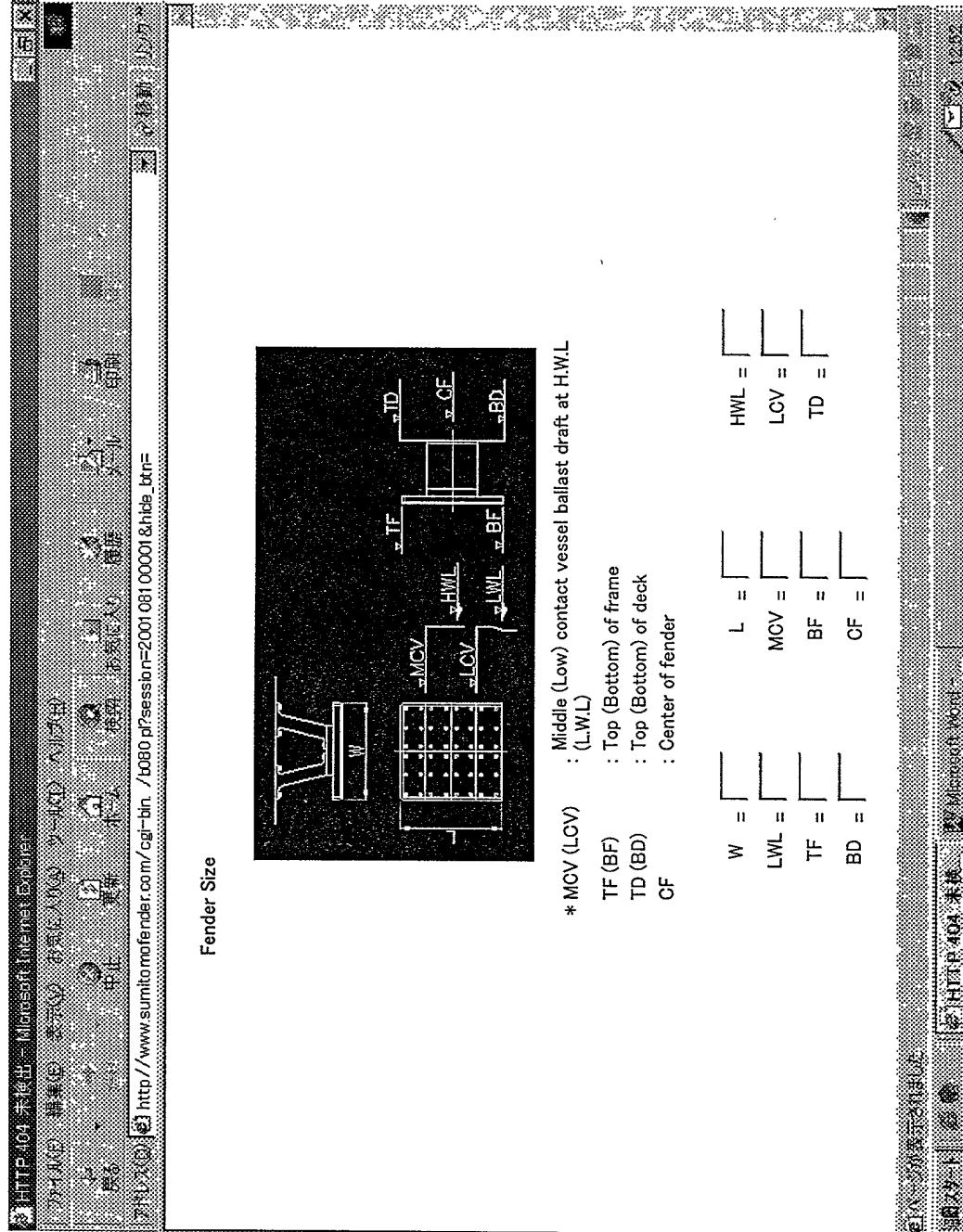
Copyright © SUMITOMO RUBBER INDUSTRIES LTD.

**FIG. 11**  
**SCREEN FOR DISPLAYING PERFORMANCE CURVES AND DOCUMENT OF CONSIDERATION RESULTS**

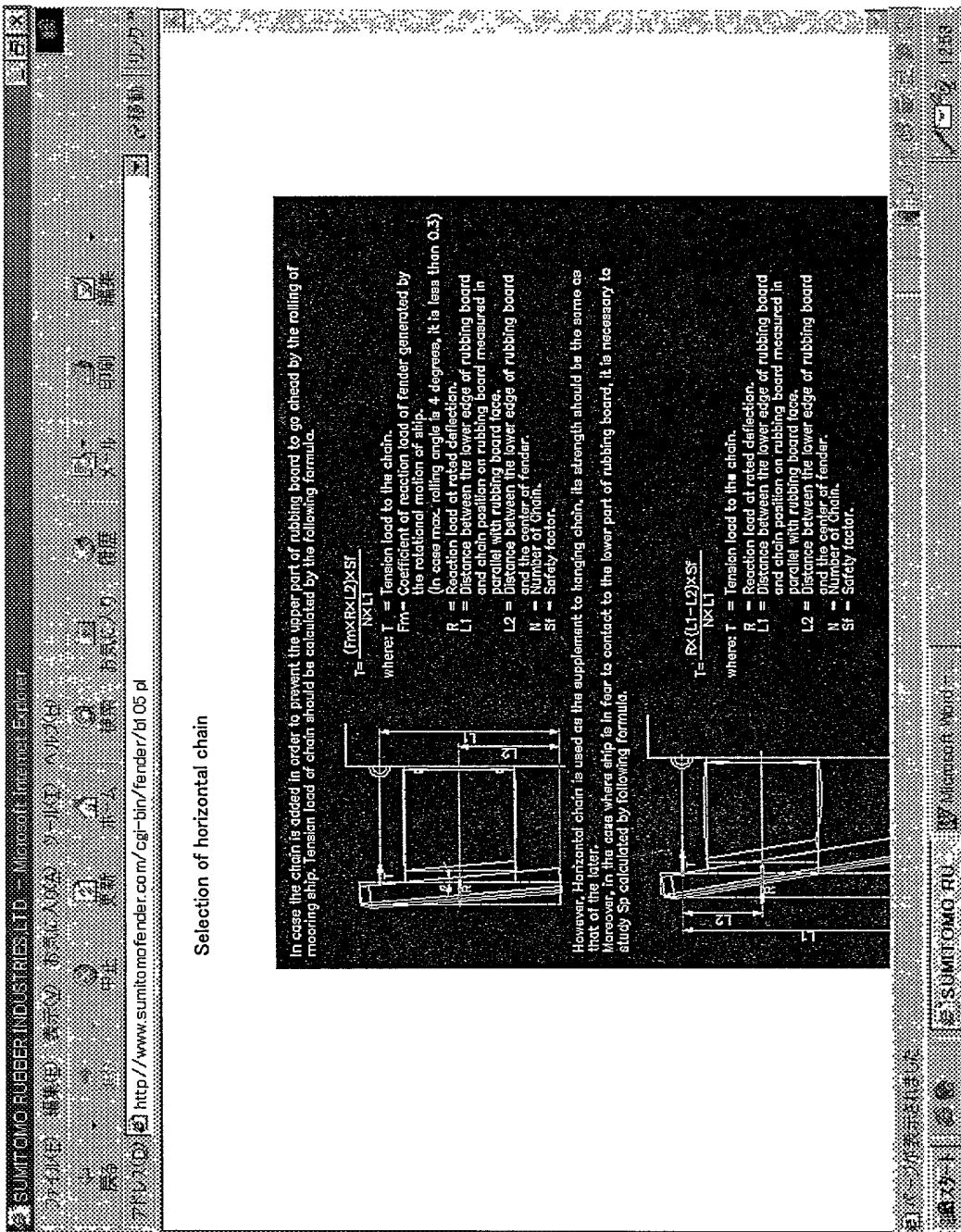


**FIG. 12**

SCREEN FOR DISPLAYING SYSTEM ILLUSTRATION AND FOR  
ENTERING PARAMETERS



**FIG. 13** SCREEN FOR SELECTING ACCESSORY (CHAIN)



## **FIG. 14** SCREEN FOR DISPLAYING DRAWINGS

